

葡萄牙的机器人学和 STEM 教育

曼纽尔·科斯塔

20 多年前，葡萄牙大学的机器人、工业自动化和人工智能研究小组开始了一系列倡议和活动，以便将这些学科引入葡萄牙高中，推广了大量讲座和示范活动。机器人的完成产生了重大的积极影响。最初以 K12 学生为重点，在参与机器人世界杯（RoboCup）竞赛的研究小组、国家生命科学署和实践科学网络以及许多学校和专业学校的共同努力下，这些活动很快扩展到所有学校级别。2004 年春季在里斯本举行的世界机器人竞赛 (RoboCup 2004) 是葡萄牙 STEM 教育中教育机器人和人工智能过去二十年快速发展的关键时刻。本报告将简要概述这一演变过程。

Robotics and STEM education in Portugal

Manuel Filipe Pereira Cunha Martins Costa

Over 20 years ago the robotics, industrial automation and artificial intelligence research groups of the Portuguese universities began a number of initiatives and activities in order to bring these subjects into the Portuguese high schools. A large number of lectures and demonstration activities were promoted. Robotics completions had a major positive effect. Initially focused on K12 students soon the activities were extended to all school levels with the combined efforts of the research groups involved in the ROBOCUP competitions, the National Ciência Viva Agency and Hands-on Science Network, as well as many schools and professional schools. The World Robotics Competition, ROBOCUP2004 in the Spring of 2004 in Lisbon was a key moment to the fast development on last two decades of educational robotics and artificial intelligence in STEM education in Portugal. A short overview of this evolutionary process will be given in this presentation.

